

## CLAIMS

I claim:

1     1.     In a carburetor assembly of a combustion engine of a vehicle having fuel bowls  
2     positioned on opposed sides of the carburetor, each of said fuel bowls having a fuel inlet  
3     port, a fuel receiving fixture mounted to each fuel inlet port, a fuel transfer assembly  
4     extending between the fuel receiving fixtures, a fuel supply line in fluid communication  
5     with one of the fixtures, and a float valve in each fuel bowl for controlling the admission of  
6     fuel through said fuel inlet ports into each of the said fuel bowls, the improvement therein  
7     of:

8             said external fuel receiving fixtures each including a nipple, said nipples facing  
9     and in alignment with each other,

10            a fuel transfer tube extending between said nipples, the fuel transfer tube having  
11     opposed ends and connected at its opposed ends to said nipples, and

12            O-ring grooves interposed between said nipples and the ends of said fuel transfer  
13     tubes, and O-rings seated in said O-ring grooves for sealing said fuel transfer tube at its  
14     ends to said nipples.

1     2.     The carburetor of claim 1, wherein

2             said o-ring grooves comprise at least two O-ring grooves formed on each nipple,  
3     and said O-rings comprise an O-ring seated in each O-ring groove.

1     3.     The carburetor of claim 2, wherein  
2           said fuel transfer tube defines a counterbore at each end, and the nipples are  
3     received in the counterbores.

1     4.     The carburetor of claim 3, wherein said nipples are spaced apart a distance less  
2     than the length of said fuel transfer tube, such that the ends of the fuel transfer tube are  
3     supported in place by the nipples with out requiring additional fasteners.

1     5.     In a carburetor assembly of a combustion engine of a vehicle having fuel bowls  
2     positioned on opposed sides of the carburetor, a fuel transfer assembly extending between  
3     the fuel bowls, and a fuel supply line in fluid communication with the fuel transfer  
4     assembly, the improvement therein of:

5           said fuel transfer assembly comprising a fuel transfer tube having an internal  
6     passage and oppositely facing ends, the opposite ends of the transfer tube each defining a  
7     counterbore of greater breadth than the internal passage,

8           said fuel bowls each including mounting means extending into a counterbore of said  
9     fuel transfer tube in fluid communication therewith and supporting the fuel transfer tube  
10    without additional support being required, and

11          O-rings positioned between the counterbores of the fuel transfer tube and the  
12    mounting means for sealing the ends of the fuel transfer tube to the mounting means.

1     6.     In the carburetor of claim 5, each mounting means comprising a fuel receiving  
2     fixture in fluid communication with each fuel bowl and including nipples facing and in  
3     alignment with the opposite fuel receiving fixtures and spaced apart a distance less than the  
4     length of the fuel transfer tube and trapping the ends of the fuel transfer tube.

1     7.     In the carburetor of claim 5, wherein  
2     O-ring grooves are formed on said nipples.

1     8.     In the carburetor of claim 5, wherein  
2     said fuel transfer tube has a larger inside diameter than the inside diameter of the  
3     nipples.